



GPCR Portfolio

| | | | Products | Read-outs | Target Panels |
|----------|---------|----------------------|-------------------------------------|-----------------------------------|--|
| Sub-Type | Species | Service Availability | Cell Lines EZCells™ Membranes | Calcium cAMP CNG Binding | Cardiac Vascular Pulmonary-Respiratory Pain & Inflammation Psychiatric Disorder Seizure-Convulsion Neurodegeneration & Stroke Metabolic & Gastrointestinal Genitourinary Cancer |

| | | | Cell Lines | EZCells™ | Membranes | Calcium | cAMP | CNG | Binding | Cardiac | Vascular | Pulmonary-Respiratory | Pain & Inflammation | Psychiatric Disorder | Seizure-Convulsion | Neurodegeneration & Stroke | Metabolic & Gastrointestinal | Genitourinary | Cancer | |
|-------------------------|--------------|-------|------------|----------|-----------|---------|------|-----|---------|---------|----------|-----------------------|---------------------|----------------------|--------------------|----------------------------|------------------------------|---------------|--------|--|
| Biogenic Amines | | | | | | | | | | | | | | | | | | | | |
| Acetylcholine | M1 | human | ■ | ■ | ■ | ● | ● | | ● | | | ● | | ● | | ● | | | | |
| | M2 | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | M3 | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | M4 | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | M5 | rat | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| Adrenergic | Alpha1a | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | Alpha 2a | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | Alpha 2b | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | Alpha 2c | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | Beta1 | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| Dopamine | D2 | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | D5 | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| Histamine | H1 | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| Glutamate | mGluR2 | human | ■ | ■ | ■ | | ● | | ● | | | | | | | | | | | |
| | mGluR4 | human | ■ | ■ | ■ | | ● | | ● | | | | | | | | | | | |
| | mGluR7 | human | ■ | ■ | ■ | | ● | | ● | | | | | | | | | | | |
| | mGluR8 | human | ■ | ■ | ■ | | ● | | ● | | | | | | | | | | | |
| Serotonin | 5HT1a | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | 5HT2b | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | 5HT2b | mouse | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | 5HT2c | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | 5HT4 | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | 5HT6 | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | 5HT7 | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| Lipid & FFA | | | | | | | | | | | | | | | | | | | | |
| Cannabinoid | CB1 | human | ■ | ■ | ■ | ● | ● | | ● | | | | | | | | | | | |
| | CB1 | human | ■ | ■ | ■ | ● | ● | | ● | | | | | | | | | | | |
| | CB1 | rat | ■ | ■ | ■ | ● | ● | | ● | | | | | | | | | | | |
| | CB2 | human | ■ | ■ | ■ | ● | ● | | ● | | | | | | | | | | | |
| | CB2 | rat | ■ | ■ | ■ | ● | ● | | ● | | | | | | | | | | | |
| Free Fatty Acid | GPR40 | human | ■ | ■ | ■ | ● | ● | | ● | | | | | | | | | | | |
| | GPR41 | human | ■ | ■ | ■ | ● | ● | | ● | | | | | | | | | | | |
| | GPR43 | human | ■ | ■ | ■ | ● | ● | | ● | | | | | | | | | | | |
| | GPR119 | human | ■ | ■ | ■ | ● | ● | | ● | | | | | | | | | | | |
| | GPR120 | human | ■ | ■ | ■ | ● | ● | | ● | | | | | | | | | | | |
| Lysophospholipid | S1P1 (Edg1) | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | S1P1 (Edg1) | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | LPA1 (Edg2) | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | LPA4 (GPR23) | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| Nucleotide | | | | | | | | | | | | | | | | | | | | |
| Adenosine | A1 | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | A1 | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | A2a | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | A2b | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | A3 | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | A3 | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| Purinergic | P2Y1 | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | P2Y6 | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | P2Y11 | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |
| | P2Y12 | human | ■ | ■ | ■ | ● | ● | | ● | | ● | | | | | | | | | |

Gray boxes (■) indicate future EZCell™ and membrane products

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|--------------------------------------|----------|---------|----------------------|-----------|----------|-----------|-----------|------|-----|---------|---------------|----------|-----------------------|---------------------|----------------------|--------------------|----------------------------|------------------------------|---------------|--------|---|--|
| | Sub-Type | Species | Service Availability | Cell Line | EZCells™ | Membranes | Calcium | cAMP | CNG | Binding | Cardiac | Vascular | Pulmonary-Respiratory | Pain & Inflammation | Psychiatric Disorder | Seizure-Convulsion | Neurodegeneration & Stroke | Metabolic & Gastrointestinal | Genitourinary | Cancer | | |
| Prokineticin | PKR2 | human | ■ | ■ | ■ | ■ | ● | | | | | | | | | | | | | | | |
| Protease-Activated | PAR1 | human | ■ | ■ | ■ | ■ | ● | | | | | ● | | | | | | | | | ● | |
| | PAR2 | human | ■ | ■ | ■ | ■ | ● | | | ● | | | | ● | | | | ● | | | ● | |
| | PAR4 | human | ■ | ■ | ■ | ■ | ● | | | | | ● | | | | | | | | | | |
| Relaxin | RXFP4 | human | ■ | ■ | ■ | ■ | ● | | | | | | | | | | | | | | | |
| Secretin | SCTR | human | ■ | | | | | ● | | | | | | | | | | | | | ● | |
| Somatostatin | SST4 | human | ■ | ■ | ■ | ■ | ● | | | | | | ● | | ● | | | | | | ● | |
| | SST5 | human | ■ | ■ | ■ | ■ | ● | | | | | | | | | | | | | | ● | |
| | SST5 | human | ■ | ■ | ■ | ■ | | | ● | | | | | | | | | | | | ● | |
| Thromboxane | TBXA2R | human | ■ | ■ | ■ | ■ | | | | ● | | ● | | | | | ● | | | | | |
| Thyroid Stim Hormone | TSHR | human | ■ | | | | | | ● | | | | | | | | | | ● | | | |
| Vasoactive Intestinal Peptide | VIPR1 | human | ■ | ■ | ■ | ■ | | | ● | | | | ● | | | | | | | | ● | |
| | VIPR2 | human | ■ | ■ | ■ | ■ | | | ● | | | | ● | | | | | | | | ● | |
| Vasopressin | V1a | human | ■ | ■ | ■ | ■ | ● | | | | | ● | | | | | | | | | | |
| | V1b | human | ■ | ■ | ■ | ■ | ● | | | | | | | | ● | | | | | | | |
| | V2 | human | ■ | ■ | ■ | ■ | | | ● | | | | ● | | | | | | | ● | | |
| | V2 | human | ■ | ■ | ■ | ■ | ● | | | | | ● | | | | | | | | ● | | |
| Prostanoid | | | | | | | | | | | | | | | | | | | | | | |
| Prostaglandin D2 | DP | rat | ■ | ■ | ■ | ■ | | | ● | | | | ● | | | | | | | | | |
| Prostaglandin | EP2 | human | ■ | ■ | ■ | ■ | | | ● | | | | ● | | | | | | | | | |
| Prostaglandin E | EP4 | human | ■ | ■ | ■ | ■ | | | ● | | | | ● | ● | | | | | | | ● | |
| Prostaglandin I2 | IP | human | ■ | ■ | ■ | ■ | | | ● | | | | ● | | | | | | | | | |