



Serotonin Receptor 7 (5-Hydroxytryptamine (Serotonin) Receptor 7, 5-Hydroxytryptamine Serotonin Receptor 7, 5-HT7, 5-HT-7, 5HT7 Receptor, 5-HT-X, GPRFO, HTR7, Serotonin 5-HT-7 Receptor)

Catalog number

S1001-23M

Supplier

United States Biological

Receptors for serotonin (5-hydroxytryptamine, 5-HT) are classified into seven major classes (5-HTR1-7), based on structural, functional and pharmacological criteria (Hoyer et al, 1994). The 5-HT7 receptor (5-HT7R) is a seven-transmembrane-domain G-protein-coupled receptor that has important roles in regulating diverse biological process in the central and peripheral nervous systems (reviewed in Hedlund and Sutcliffe, 2004). Receptors for serotonin (5-hydroxytryptamine, 5-HT) are classified into seven major classes (5-HT1-7), based on structural, functional and pharmacological criteria (Hoyer et al, 1994). Sequence alignment shows a high degree of interspecies 5-HT7R homology (>90%), and a low homology with other 5-HTRs.

Applications

Suitable for use in Western Blot. Other applications not tested.

Recommended Dilution

Optimal dilutions to be determined by the researcher.

Storage and Stability

May be stored at 4°C for short-term only. For long-term storage and to avoid repeated freezing and thawing, add sterile glycerol (40-50%), aliquot and store at -20°C. Aliquots are stable for at least 12 months at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

Formulation

Supplied as a liquid in PBS, 0.2% gelatin, 0.05% sodium azide.

Purity

Purified by Protein G affinity chromatography.

Specificity

Species Crossreactivity: Reacts with canine, Human, Mouse, Rat. Predicted to react with Porcine.

Product Type

Pab

Source

human

**Isotype**

IgG

Grade

Affinity Purified

Applications

WB

Crossreactivity

Ca Hu Mo Rt

Storage

-20°C

Reference

1. Hedlund PB and JC Sutcliffe. 2004. Functional, molecular and pharmacological advances in 5-HT₇ receptor research. Trends Pharmacol Sci. 25:481-486.
2. Hoyer D, DE Clarke, JR Fozard, PR Hartig, GR Martin, EJ Mylecharane et al. 1994. International Union of Pharmacology classification of receptors for 5-hydroxytryptamine (serotonin). Pharmacological Reviews 46:157-203.