

Recombinant Mouse Sigmar1 Protein, Myc/DDK-tagged

Cat. No. Sigmar1-5877M Lot. No. (See product label)

SPECIFICATION

Product Overview Purified recombinant protein of mouse full-length sigma non-opioid intracellular receptor 1 (Sigmar1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species Mouse

Source HEK293

Description This gene encodes a transmembrane protein located in the endoplasmic reticulum. The encoded protein is a receptor that binds several endogenous ligands, including N,N-dimethyltryptamine, progesterone and pregnenolone and a variety of non-opiate compounds. The encoded protein plays a role in regulating the activity of ion channels, acting as a chaperone and protecting cells from oxidative stress. In humans, this receptor has been associated with Alzheimer's and Parkinson's diseases, stroke and numerous disease conditions such as depression, pain and addiction. Alternative splicing results in multiple transcript variants encoding different isoforms.

Molecular Mass 25.2 kDa

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name [Sigmar1 sigma non-opioid intracellular receptor 1 \[Mus musculus \(house mouse\) \]](#)

Official Symbol [Sigmar1](#)

Synonyms Sigmar1; sigma non-opioid intracellular receptor 1; O; Si; mSig; Oprs1; Sig1R; sigma1R; sigma non-opioid intracellular receptor 1; opioid receptor, sigma 1; sigma 1 receptor variant SR-1D; sigma 1-type opioid receptor; sigma1-receptor

Gene ID [18391](#)

mRNA Refseq [NM_011014](#)

Protein Refseq [NP_035144](#)

UniProt ID [O55242](#)

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