

Recombinant Human SIGMAR1 protein, GST-tagged

Cat. No. SIGMAR1-13H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SIGMAR1(1 a.a. - 223 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-223 a.a.
Description	This gene encodes a receptor protein that interacts with a variety of psychotomimetic drugs, including cocaine and amphetamines. The receptor is believed to play an important role in the cellular functions of various tissues associated with the endocrine, immune, and nervous systems. As indicated by its previous name, opioid receptor sigma 1 (OPRS1), the product of this gene was erroneously thought to function as an opioid receptor; it is now thought to be a non-opioid receptor. Mutations in this gene has been associated with juvenile amyotrophic lateral sclerosis 16. Alternative splicing of this gene results in transcript variants encoding distinct isoforms.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	51.5 kDa
AA Sequence	MQWAVGRRWAWAALLLAVAAVLTQVVWLWLGTQSFVFQREEIAQLARQYAGLDH ELAFSRLIVELRRLHPGHVLP DEELQWVFNAGGWMGAMCLLHASLSEYVLLFGTA

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LGSRGHSGRYWAEISDTIISGTFHQWREGTTKSEVFYPGE TVVHGPGGEATAVEWG
PNTWMVEYGRGVIPSTLAFALADTVFSTQDFLTLFYTLRSYARGRLRLTTLTYLFGQD
P

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name

[SIGMAR1 sigma non-opioid intracellular receptor 1 \[Homo sapiens \]](#)

Official Symbol

[SIGMAR1](#)

Synonyms

SIGMAR1; sigma non-opioid intracellular receptor 1; opioid receptor, sigma 1 ,
OPRS1; SR BP1; SR-BP; SIG-1R; sigma1R; hSigmaR1; SR31747 binding protein 1;
sigma 1-type opioid receptor; aging-associated gene 8 protein; SRBP; ALS16;
OPRS1; SR-BP1; MGC3851; FLJ25585;

Gene ID

[10280](#)

mRNA Refseq

[NM_005866](#)

Protein Refseq

[NP_005857](#)

MIM

[601978](#)

UniProt ID

[Q99720](#)

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Chromosome Location	9p13.3
Function	C-8 sterol isomerase activity; drug binding; opioid receptor activity; receptor activity;