

Recombinant Human SIGMAR1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SIGMAR1-5128H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

SIGMAR1 MS Standard C13 and N15-labeled recombinant protein (NP_005857) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

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.

Molecular Mass

25.1 kDa

AA Sequence

MQWAVGRRWAWAALLLAVAAVLTQVVWLWLGTQSFVFRREEIAQLARQYAGLDH
ELAFSRLIVELRRLHPGHVLPDEELQWVFNAGGWMGAMCLLHASLSEYVLLFGTA
LGSRGHSGRYWAEISDTIISGTFHQWREGTTKSEVFYPGETVVHGPGEATAVEWGP
NTWMVEYGRGVIPSTLAFALADTVFSTQDFLTLFYTLRSYARGLRLELTTYLFGQDP

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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

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](#)

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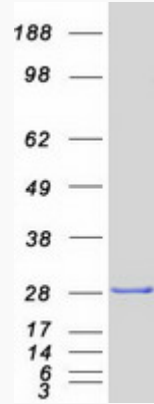
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UniProt ID

Q99720

SDS-PAGE



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