

Recombinant Human ALS2, His-tagged

Cat. No. ALS2-9600H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ALS2 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	N-term-304a.a.
Description	<p>The protein encoded by this gene contains an ATS1/RCC1-like domain, a RhoGEF domain, and a vacuolar protein sorting 9 (VPS9) domain, all of which are guanine-nucleotide exchange factors that activate members of the Ras superfamily of GTPases. The protein functions as a guanine nucleotide exchange factor for the small GTPase RAB5. The protein localizes with RAB5 on early endosomal compartments, and functions as a modulator for endosomal dynamics. Mutations in this gene result in several forms of juvenile lateral sclerosis and infantile-onset ascending spastic paralysis. Multiple transcript variants encoding different isoforms have been found for this gene.</p>
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

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GENE INFORMATION

Gene Name	ALS2 amyotrophic lateral sclerosis 2 (juvenile) [Homo sapiens]
Official Symbol	ALS2
Synonyms	ALS2; amyotrophic lateral sclerosis 2 (juvenile); ALS2CR6, amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 6; alsin; amyotrophic lateral sclerosis 2 protein; amyotrophic lateral sclerosis 2 chromosomal region candidate gene 6 protein; ALSJ; PLSJ; IAHSP; ALS2CR6; FLJ31851; KIAA1563; MGC87187;
Gene ID	57679
mRNA Refseq	NM_001135745
Protein Refseq	NP_001129217
MIM	606352
UniProt ID	Q96Q42
Chromosome Location	2q33-q35
Pathway	Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem;
Function	Rab GTPase binding; Rab GTPase binding; Rab guanyl-nucleotide exchange factor activity; Rac guanyl-nucleotide exchange factor activity; Ran guanyl-nucleotide exchange factor activity; contributes_to guanyl-nucleotide exchange factor activity; protein homo

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