Recombinant Human CASTOR1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CASTOR1-3060H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GATSL3 MS Standard C13 and N15-labeled recombinant protein (NP_001032755) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Functions as an intracellular arginine sensor within the amino acid-sensing branch of the TORC1 signaling pathway. As a homodimer or a heterodimer with CASTOR2, binds and inhibits the GATOR subcomplex GATOR2 and thereby mTORC1. Binding of arginine to CASTOR1 allosterically disrupts the interaction of CASTOR1-containing dimers with GATOR2 which can in turn activate mTORC1 and the TORC1 signaling pathway.
Molecular Mass	36.3 kDa
AA Sequence	MELHILEHRVRVLSVARPGLWLYTHPLIKLLFLPRRSRCKFFSLTETPEDYTLMVDEE GFKELPPSEFLQVAEATWLVLNVSSHSGAAVQAAGVTKIARSVIAPLAEHHVSVLML STYQTDFILVREQDLSVVIHTLAQEFDIYREVGGEPVPVTRDDSSNGFPRTQHGPSP TVHPIQSPQNRFCVLTLDPETLPAIATTLIDVLFYSHSTPKEAASSSPEPSSITFFAFSLI EGYISIVMDAETQKKFPSDLLLTSSSGELWRMVRIGGQPLGFDECGIVAQIAGPLAAA DISAYYISTFNFDHALVPEDGIGSVIEVLQRRQEGLASTRTRPLEQKLISEEDLAANDIL DYKDDDDKV

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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	CASTOR1 cytosolic arginine sensor for mTORC1 subunit 1 [Homo sapiens (human)]
Official Symbol	CASTOR1
Synonyms	CASTOR1; cytosolic arginine sensor for mTORC1 subunit 1; GATSL3; cytosolic arginine sensor for mTORC1 subunit 1; GATS protein like 3; GATS-like protein 3; cellular arginine sensor for mTORC1 protein 1
Gene ID	652968
mRNA Refseq	NM_001037666
Protein Refseq	NP_001032755
MIM	617034
UniProt ID	Q8WTX7

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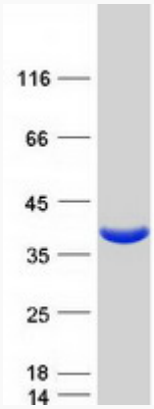
SDS-PAGE	

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