

Recombinant Full Length Human GBE1 Protein, C-Flag-tagged

Cat. No. GBE1-2146HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GBE1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Catechol-O-methyltransferase catalyzes the transfer of a methyl group from S-adenosylmethionine to catecholamines, including the neurotransmitters dopamine, epinephrine, and norepinephrine. This O-methylation results in one of the major degradative pathways of the catecholamine transmitters. In addition to its role in the metabolism of endogenous substances, COMT is important in the metabolism of catechol drugs used in the treatment of hypertension, asthma, and Parkinson disease. COMT is found in two forms in tissues, a soluble form (S-COMT) and a membrane-bound form (MB-COMT). The differences between S-COMT and MB-COMT reside within the N-termini. Several transcript variants are formed through the use of alternative translation initiation sites and promoters.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	80.3 kDa
AA Sequence	MAAPMTPAARPEDYEAALNAALADVPELARLLEIDPYLKPYAVDFQRRYKQFSQILK NIGENEGGIDKFS RGYESFGVHRCADGGLYCKEWAPGAEGVFLTGFNGWNPFS YPYKLDYDGKWEYIPPKQNKSVLPHGS KLKVVITSKSGEILYRISPWAKYVVREG

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DNVNYDWIHWDPESHSEYEFKHSRPPKPRSLRIYESHVGISSHE GKVASYKHFTCNVL
 PRIKGLGYNCIQLMAIMEHAYYASFGYQITSFFAASSRYGSPEELQELVDTAHSMT II
 VLLDVVHSHASKNSADGLNMFDTGTDSCYFHSGPRGTHDLWDSRLFAYSSWEVLRFL
 LLSNIRWWLEEYR FDGFRFDGVTSMYHGGVGGQFSGDYSEYFGLQVDEALTY
 LMLANHLVHTLCPDSITIAEDVSGMPAL CSPISQGGGGFDYRLAMAIPDKWIQLLKEF
 KDEDWNMGDIVYTLTNRRYLEKCIAYAESHQALVGDKSL AFWLMDAEMYTNMSV
 LTPFTPVIDRGIQLHKMIRLITHGLGGEGYLNFMGNEFGHPEWLDLDFPRKGNNEHY HY
 ARRFHLTDDDLLRYKFLNNFDRDMNRLEERYGWLAAPQAYVSEKHEGNKIIAFER
 AGLLFIFNFHPS KSYTDYRVGTALPGKFKIVLDSDAAEYGGHQRLDHSTDFSEAFE
 HNGRPYSLLVYIPSRVALILQNVDL PN TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Metabolic pathways, Starch and sucrose metabolism
Full Length	Full L.

GENE INFORMATION

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Gene Name	GBE1 1,4-alpha-glucan branching enzyme 1 [Homo sapiens (human)]
Official Symbol	GBE1
Synonyms	GBE; APBD; GSD4
Gene ID	2632
mRNA Refseq	NM_000158.4
Protein Refseq	NP_000149.4
MIM	607839
UniProt ID	Q04446

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