

Recombinant Full Length Human cereblon Protein, GST tagged

Cat. No. CRBN-09HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human CRBN was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	1-442 aa
Description	This gene encodes a protein related to the Lon protease protein family. In rodents and other mammals this gene product is found in the cytoplasm localized with a calcium channel membrane protein, and is thought to play a role in brain development. Mutations in this gene are associated with autosomal recessive nonsyndromic cognitive disability. Multiple transcript variants encoding different isoforms have been found for this gene.
Tag	N-GST
Molecular Mass	~78 kDa
AA Sequence	MAGSVGLALCGQTLVVRGGSRFLATSIASSDDDSLFIYDCSAAEKKSQENKGEDAPL DQGSGAILASTFSNSGSYFALTDDSKRLILFRTKPWQCLSVRTVARRCTALTFIASEE KVLVADKSGDVYSFSVLEPHGCGRLELGHLSMLLDVAVSPDDRFLTADRDEKIRVS WAAAPHSESFCLGHTFVSRISVVPTQPGLLLSSSGDGTLRLWEYRSGRQLHCCH

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LASLQELVDPQAPQKFAASRIAFWCQENCVALLCDGTSVVYIFQLDARRQQQLVYRQ
QLAFQHQVWDVAFEETQGLWVLQDCQEAPLVLYRPVGDQWQSVPESTVLKKVSG
VLRGNWAMLEGSAGADASFSSLYKATFDNVTSYLKKKEERLQQQLEKKQRRQSPP
PGPDGHAKKMRPGEATLSCTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 70% by densitometry.

Stability One year at –70 centigrade from date of shipment.

Storage Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Storage Buffer Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 25% glycerol.

Concentration 0.05 µg/µL

Shipping Product shipped on dry ice.

Reference

1. Ito, T., et al. (2010). Identification of a primary target of thalidomide teratogenicity. *Science*, 327(5971), 1345-1350.
2. Krönke, J., et al. (2014). Lenalidomide induces ubiquitination and degradation of CK1α in del(5q) MDS. *Nature*, 523(7562), 183-188.
3. Higgins, J. J., et al. (2004). A mutation in a novel ATP-dependent Lon protease gene in a kindred with mild mental retardation. *Neurology*, 63(10), 1927-1931.

GENE INFORMATION

Gene Name **CRBN cereblon [Homo sapiens (human)]**

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Official Symbol	CRBN
Synonyms	CRBN; cereblon; mental retardation, non syndromic, autosomal recessive, 2A , MRT2A; protein cereblon; protein x 0001; MRT2; MRT2A; MGC27358; DKFZp781K0715
Gene ID	51185
mRNA Refseq	NM_016302
Protein Refseq	NP_057386
MIM	609262
UniProt ID	Q96SW2
SDS-PAGE	