Recombinant Human XRP2/RP2 Protein (GST Tag)

Catalog No. PKSH031261

Note: Centrifuge before opening to ensure complete recovery of vial contents.

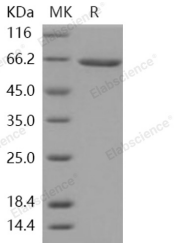
Description

Synonyms	DELXp11.3;KIAA0215;NM23-H10;NME10;RP2;TBCCD2;XRP2
Species	Human
Expression Host	Baculovirus-Insect Cells
Sequence	Met 1-Thr 350
Accession	NP_008846.2
Calculated Molecular Weight	66.0 kDa
Observed molecular weight	66 kDa
Tag	N-GST
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile 50mM Tris, 100mM NaCl, 1mM GSH 0.5mM EDTA, 0.5mM PMSF pH 8.0 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

XRP2, also known as Protein XRP2 and RP2, is a member of theTBCC (tubulin cofactor C) family and contains oneC-

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CAP/cofactor C-like domain. This protein is encoded by theRP2gene in humans. XRP2 stimulates the GTPase activity of tubulin, but does not enhance tubulin heterodimerization. XRP2 acts as guanine nucleotide dissociation inhibitor for ARL3. Defects in RP2 gene are the cause of retinitis pigmentosa type 2 (RP2), also known as X-linked retinitis pigmentosa 2 (XLRP-2). It leads to degeneration of retinal photoreceptor cells. Patients typically have night vision blindness and loss of midperipheral visual field. As their condition progresses, they lose their far peripheral visual field and eventually central vision as well.

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