

Recombinant Human BBS4 Protein, GST-tagged

Cat. No. BBS4-108H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human BBS4 full-length ORF (AAH27624, 1 a.a. - 519 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	This gene is a member of the Bardet-Biedl syndrome (BBS) gene family. Bardet-Biedl syndrome is an autosomal recessive disorder characterized by severe pigmentary retinopathy, obesity, polydactyly, renal malformation and mental retardation. The proteins encoded by BBS gene family members are structurally diverse. The similar phenotypes exhibited by mutations in BBS gene family members are likely due to the proteins shared roles in cilia formation and function. Many BBS proteins localize to the basal bodies, ciliary axonemes, and pericentriolar regions of cells. BBS proteins may also be involved in intracellular trafficking via microtubule-related transport. The protein encoded by this gene has sequence similarity to O-linked N-acetylglucosamine (O-GlcNAc) transferases in plants and archaeobacteria and in human forms a multi-protein "BBSome" complex with six other BBS proteins. Alternative splice variants have been described but their predicted protein products have not been experimentally verified.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	82.83 kDa

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AA Sequence

MAEERVATRTQFPVSTESQKPRQKKAPEFFPILEKQNWLIHLHYIRKDYEACKAVIKEQ
 LQETQGLCEYAIYVQALIFRLEGNIQESLELFQTCAVLSPQSADNLKQVARSLFLLGK
 HKAAIEVYNEAAKLNQKDWEISHNLGVCYIYLKQFNKAQDQLHNALNLRHDLTYIML
 GKIHLLEGDLDKAIEVYKKAVEFSPENTELLTTLGLLYLQLGIYQKAFEHLGNALTYDP
 TNYKAILAAGSMMQTHGDFDVALTKYRVVACAVPESPLWNNIGMCFFGKKKYVAAI
 SCLKRANYLAPFDWKILYNLGLVHLTMQQYASAFHFLSAAINFQPKMGELYMLLAVA
 LTNLEDTENAKRAYAEAVHLDKCNPLVNLNYAVLLYNQGEKKNALVQYQEMERKVS
 LLKDNSSLEFDSEMVEMAQKLGAALQVGEALVWTKPVKDPKSKHQTTSTSKPASFQ
 QPLGSNQALGQAMSSAAAYRTLPSGAGGTSQFTKPPSLPLEPEPAVESSPTETSEQ
 IREK

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION
Gene Name

[BBS4 Bardet-Biedl syndrome 4 \[Homo sapiens \]](#)

Official Symbol

[BBS4](#)

Synonyms

BBS4; Bardet-Biedl syndrome 4; Bardet-Biedl syndrome 4 protein;

Gene ID

[585](#)

mRNA Refseq

[NM_001252678](#)

Protein Refseq

[NP_001239607](#)

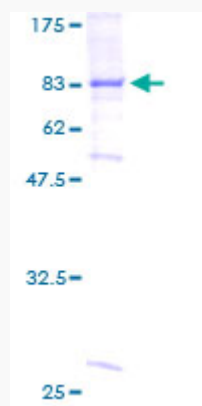
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MIM 600374

UniProt ID Q96RK4



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