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Product datasheet for PH302727

HUS1 (NM_004507) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	HUS1 MS Standard C13 and N15-labeled recombinant protein (NP_004498)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202727
Predicted MW:	31.7 kDa
Protein Sequence:	>RC202727 protein sequence Red=Cloning site Green=Tags(s) MKFRAKIVDGACLNHFTRISNMIAKLAKTCTLRISPDKLNFILCDKLANGGVSMWCELEQENFFNEFQME GVSAENNEIYLELTSENLSRALKTAQNARALKIKLTNKHFPCLTVSVELLSMSSSSRIVTHDIPIKVIPR KLWKDLQEPVVPDPDVSIYLPVLKTMKSVVEKMKNISNHLVIEANLDGELNLKIETELVCVTTHFKDLGN PPLASESTHEDRNVEHMAEVHIDIRKLLQFLAGQQVNPTKALCNIVNNKMVHFDLLHEDVSLQYFIPALS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_004498
RefSeq Size:	3033
RefSeq ORF:	840
Synonyms:	hHUS1
Locus ID:	3364
UniProt ID:	O60921, A4D2F2

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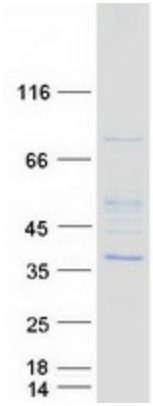
Cytogenetics: 7p12.3

Summary: The protein encoded by this gene is a component of an evolutionarily conserved, genotoxin-activated checkpoint complex that is involved in the cell cycle arrest in response to DNA damage. This protein forms a heterotrimeric complex with checkpoint proteins RAD9 and RAD1. In response to DNA damage, the trimeric complex interacts with another protein complex consisting of checkpoint protein RAD17 and four small subunits of the replication factor C (RFC), which loads the combined complex onto the chromatin. The DNA damage induced chromatin binding has been shown to depend on the activation of the checkpoint kinase ATM, and is thought to be an early checkpoint signaling event. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2011]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified HUS1 protein (Cat# [TP302727]). The protein was produced from HEK293T cells transfected with HUS1 cDNA clone (Cat# [RC202727]) using MegaTran 2.0 (Cat# [TT210002]).