

Product datasheet for PH307587

beta 2 Microglobulin (B2M) (NM_004048) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	B2M MS Standard C13 and N15-labeled recombinant protein (NP_004039)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207587
Predicted MW:	13.71 kDa
Protein Sequence:	>RC207587 representing NM_004048 Red=Cloning site Green=Tags(s) MSRSVALAVLALLSLSGLEAIQRTPKIQVYSRHPAENGKSNFLNCYVSGFHPSDIEVDLLKNGERIEKVE HSDLSFSKDWSFYLLYYTEFTPTEKDEYACRVNHVTLSPKIVKWDRDM 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_004039
RefSeq Size:	987
RefSeq ORF:	357
Synonyms:	IMD43
Locus ID:	567
UniProt ID:	P61769
Cytogenetics:	15q21.1



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Summary:

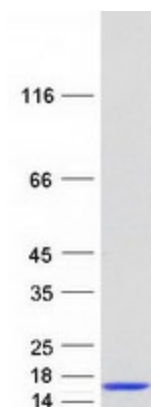
This gene encodes a serum protein found in association with the major histocompatibility complex (MHC) class I heavy chain on the surface of nearly all nucleated cells. The protein has a predominantly beta-pleated sheet structure that can form amyloid fibrils in some pathological conditions. The encoded antimicrobial protein displays antibacterial activity in amniotic fluid. A mutation in this gene has been shown to result in hypercatabolic hypoproteinemia.[provided by RefSeq, Aug 2014]

Protein Families:

Druggable Genome, Secreted Protein

Protein Pathways:

Antigen processing and presentation

Product images:

Coomassie blue staining of purified B2M protein (Cat# [TP307587]). The protein was produced from HEK293T cells transfected with B2M cDNA clone (Cat# [RC207587]) using MegaTran 2.0 (Cat# [TT210002]).