

## Product datasheet for PH321625

### CRAT (NM\_004003) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CRAT MS Standard C13 and N15-labeled recombinant protein (NP_003994)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221625
Predicted MW:	68.4 kDa
Protein Sequence:	>RC221625 representing NM_004003 Red=Cloning site Green=Tags(s)

MKASSRFKAHQDALPRLVPVPLQQSLDHYLKALQPIVSEEEWAHTKQLVDEFQASGGVGERLQKGLERRA  
RKTENWLSEWCLKTAYLQYRQPVVIIYSSPGVMLPKQDFVDLQGGQLRFAAKLIEGVLDFKVMIDNETLPVE  
YLGKPLCMNQYYQILSSCRVPGPKQDVSNSFKTKKPPHITVHVNYQFFELDVYHSDGTPLTADQIFV  
QLEKIWNSSLQTNKEPVGILTSNHRNSWAKAYNTLIKDKVNRDSVRSIQKSIFTVCLDATMPRVSEDVYR  
SHVAGQMLHGGGSRNLNSGNRWFDTLQFIVAEDGSCGLVYEAAAEGPPIVTLDDYVIEYTKKPELVRS  
MVPLPMPKCLRNFITPEIKSDIEKAKQNLSIMIQDLITVMVFHFGKDFPKSEKLSPDFIQMALQLAY  
YRIYGQACATYESASLRMFHLGRDITIRSASMSLTFVKAMDDSSVTEHQKVELLRKAVQAHRGYTDRAI  
RGEAFDRHLLGLKLAIEDLVSMPIFMDTSYAIAMHFLSTSQVPAKTDCVMFFGPVVPDGYGVCYNPM  
EAHINFSL SAYNSCAETNAARLAHYLEKALLDMRALLQSHPRAKL

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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<a href="#">NP_003994</a>
RefSeq Size:	2600
RefSeq ORF:	1815



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**Synonyms:** CAT; CAT1; NBIA8

**Locus ID:** 1384

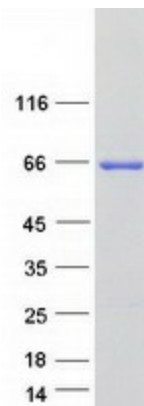
**UniProt ID:** [P43155](#)

**Cytogenetics:** 9q34.11

**Summary:** This gene encodes carnitine O-acetyltransferase, a member of the carnitine acyltransferase family and a key metabolic pathway enzyme which plays an important role in energy homeostasis and fat metabolism. This enzyme catalyzes the reversible transfer of acyl groups from an acyl-CoA thioester to carnitine and regulates the ratio of acyl-CoA/CoA. It is found in both the mitochondria and the peroxisome. Alternative splicing results in transcript variants encoding different isoforms that may localize to different subcellular compartments. [provided by RefSeq, Oct 2016]

**Protein Families:** Druggable Genome

### Product images:



Coomassie blue staining of purified CRAT protein (Cat# [TP321625]). The protein was produced from HEK293T cells transfected with CRAT cDNA clone (Cat# [RC221625]) using MegaTran 2.0 (Cat# [TT210002]).