

## Product datasheet for **PH307575**

### CA7 (NM\_001014435) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CA7 MS Standard C13 and N15-labeled recombinant protein (NP_001014435)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207575
Predicted MW:	23.5 kDa
Protein Sequence:	RC207575
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_001014435</a>
RefSeq Size:	1710
RefSeq ORF:	627
Synonyms:	CA-VII; CAVII
Locus ID:	766
UniProt ID:	<a href="#">P43166</a>
Cytogenetics:	16q22.1



[View online »](#)

**Summary:**

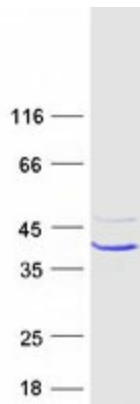
Carbonic anhydrases are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and in their subcellular localization. The cytosolic protein encoded by this gene is predominantly expressed in the brain and contributes to bicarbonate driven GABAergic neuron excitation. Alternative splicing in the coding region results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2018]

**Protein Families:**

Druggable Genome

**Protein Pathways:**

Nitrogen metabolism

**Product images:**

Coomassie blue staining of purified CA7 protein (Cat# [TP307575]). The protein was produced from HEK293T cells transfected with CA7 cDNA clone (Cat# [RC207575]) using MegaTran 2.0 (Cat# [TT210002]).