

32-7283: Recombinant Human Carbonic Anhydrase 10/CA10 (C-6His)

Gene : CA10
Gene ID : 56934
Uniprot ID : Q9NS85

Description

Source: Human Cells.
MW :32.82kD.

Recombinant Human Carbonic Anhydrase 10 is produced by our Mammalian expression system and the target gene encoding Gln22-Asn300 is expressed with a 6His tag at the C-terminus. Carbonic Anhydrase X (CA10) belongs to CA family of zinc metalloenzymes, which catalyze the reversible hydration of carbon dioxide in various biological processes such as respiration, renal tubular acidification and bone resorption. While CA10 is a secreted protein without Carbonic Anhydrase activity (i.e., the reversible hydration of CO₂) due to point mutations in the zinc binding site, it has esterase activity. The human and mouse CA10 are expressed in the brain, indicating that they may play a role in brain development.

Product Info

Amount : 10 µg / 50 µg
Content : Lyophilized from a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, pH 8.0.
Storage condition : Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.
Amino Acid : QQNSPKIHEGWWAYKEVVQGSFVPVPSFWGLVNSAWNLCISVGKRQSPVNIETSHMIFDPFLTPLRINTGGRKV
SGTMYNTGRHVSLRLDKEHLVNISSGPMYSHRLEEIRLHFGSEDSQSEHLLNGQAFSGEVQLIHYNHELYTN
VTEAAKSPNGLVVVSIFIKVSDSSNPFLNRMLNRDTITRITYKNDAYLLQGLNIEELYPETSSFITYDGSMTIPPCYE
TASWIIMNKPVYITRMQMHSRLLSQNQPSQIFLSMSDNFRPVQPLNNRCIRTNVDHHHHHHH

Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.