

32-7095: Recombinant Human Carbonic Anhydrase 5B/CA5B (C-6His)

Gene : CA5B
Gene ID : 11238
Uniprot ID : Q9Y2D0

Description

Source: E.coli.
MW :33.77kD.

Recombinant Human Carbonic Anhydrase 5B is produced by our E.coli expression system and the target gene encoding Cys34-Pro317 is expressed with a 6His tag at the C-terminus. Carbonic Anhydrase 5B (CA5B) is a member of alpha-carbonic anhydrase family (CAs) that catalyze the reversible hydration of carbon dioxide. CAs is associated with many biological processes, including calcification, respiration, bone resorption, acid-base balance and the formation of aqueous humor. CA5B is highly expressed in heart, pancreas, kidney, placenta, lung, and skeletal muscle, but it is restricted to the liver. CA5B is localized in the mitochondria and shows the highest sequence similarity to the other mitochondrial CA, CA-VA. CA5B is inhibited by coumarins, sulfonamide derivatives such as acetazolamide (AZA), saccharin, and Foscarnet.

Product Info

Amount : 10 µg / 50 µg
Content : Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 100mM NaCl, pH 8.0.
Storage condition : Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Amino Acid : MCSLYTCTYKTRNRALHPLWESVDLVPGGDRQSPINIRWRDSVYDPGLKPLTISYDPATCLHVWNNNGYSFLVEF
EDSTDKSVIKGGPLEHNYRLKQFHFHWGAIDAWGSEHTVDSKCFPAELHLVHWNVRFENFEDAALLENGLA
VIGVFLKLGKHHKELQKLVDLPSIKHKDALVEFGSFDPSCLMPTCPDYWTYSGSLTTPPLESVTWIIKKQPVEV
DHDQLEQFRTLLFTSEGEKEKRMVDNFRPLQPLMNRTVRSFRHDYVLNVQAKPKPATSQATPLEHHHHHH

Application Note

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.
Biological Activity : Specific Activity is greater than 2665.15pmol/min/ug