

Active Recombinant Human CA4 Protein, His tagged

Cat. No. CA4-115H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Carbonic Anhydrase 4 Protein, Human (HEK293, His) is the recombinant human-derived Carbonic Anhydrase 4 protein, expressed by HEK293, with C-His tag.
Species	Human
Source	HEK293
ProteinLength	19-283 aa
Description	Carbonic anhydrase 4 catalyzes the reversible hydration of carbon dioxide and plays a crucial role in maintaining intracellular and extracellular pH.
Form	Lyophilized powder, Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4, 8% trehalose.
Bio-activity	Measured by its esterase activity and the specific activity is > 2 pmoles/min/µg at room temperature for 60 minutes in the dark.
Molecular Mass	Approximately 33 kDa, based on SDS-PAGE under reducing conditions.
AASequence	MRMLLALLALSAARPSASAESHWCYEVQAESSNYPCLVPVKWGGNCQKDRQSPINI VTTKAKVDKKLGRFFFSGYDKKQTTWTQNNGHSMMLLENKASISGGGLPAPYQA KQLHLHWSDLPYKGSEHSLDGEHFAMEMHIVHEKEKGTSRNVKEAQDPEDIEAVLA FLVEAGTQVNEGFQPLVEALSNIKPPEMSTTMAESSLLDLLPKEEKLRHYFRYLGSLT TPTCDEKVWVTVFREPIQLHREQILAFSQKLYYDKEQTVSMKDNVRPLQQLGQRTVI

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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Endotoxin	< 1 EU/μg by LAL
Storage	Stored at -20 centigrade for 2 years from date of receipt. After reconstitution, it is stable at 4 centigrade for 1 week or -20 centigrade for longer (with carrier protein). It is recommended to freeze aliquots at -20 or -80 centigrade for extended storage.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.

GENE INFORMATION

Gene Name	CA4 carbonic anhydrase IV [Homo sapiens (human)]
Official Symbol	CA4
Synonyms	CA4; carbonic anhydrase IV; retinitis pigmentosa 17 (autosomal dominant), RP17; carbonic anhydrase 4; CAIV; Car4; CA-IV; carbonic dehydratase IV; carbonate dehydratase IV; RP17
Gene ID	762
mRNA Refseq	NM_000717
Protein Refseq	NP_000708
MIM	114760
UniProt ID	P22748

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