

## Product datasheet

# Recombinant Human Carbonic Anhydrase 3/CA3 protein - BSA and Azide free ab173078

### Description

---

<b>Product name</b>	Recombinant Human Carbonic Anhydrase 3/CA3 protein - BSA and Azide free
<b>Purity</b>	> 95 % SDS-PAGE. Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
<b>Endotoxin level</b>	< 1.000 Eu/μg
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<b><u>P07451</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Carrier free</b>	Yes
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	MAKEWGYASHNGPDHWHELFPNAKGENQSPIELHTKDIR HDPSLQPWSVS YDGGS AKTILNNGKTCRVVFD DTYDRSMLRGGPLPGPYRL RQFHLHWGSS DDHGSEHTVDGVKYAAELHLVHWNPKYNTFKEALKQRD GIAVIGIFLKIG HENGEFQIFLDALDKIKTKGKEAPFTKFDPSCLFPACRDY WTYQGSFTTP PCEECIVWLLLKEPMTVSSDQMAKLRSLSSAENEPPVP LVS NWRPPQPINNRVVRASFKLEHHHHHH
<b>Predicted molecular weight</b>	36 kDa including tags
<b>Amino acids</b>	2 to 260
<b>Tags</b>	His tag C-Terminus
<b>Description</b>	Recombinant Human Carbonic Anhydrase 3/CA3 protein (BSA and azide free)

### Specifications

---

Our **Abpromise guarantee** covers the use of **ab173078** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** HPLC

	SDS-PAGE
<b>Form</b>	Liquid
<b>Additional notes</b>	This product was previously labelled as Carbonic Anhydrase III

---

## Preparation and Storage

<b>Stability and Storage</b>	Shipped on Dry Ice. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.5 Constituents: 0.24% Tris, 0.88% Sodium chloride  Supplied as a 0.2 µM filtered solution.
------------------------------	---

---

## General Info

<b>Function</b>	Reversible hydration of carbon dioxide.
<b>Tissue specificity</b>	Muscle specific.
<b>Sequence similarities</b>	Belongs to the alpha-carbonic anhydrase family.
<b>Developmental stage</b>	At 6 weeks gestation, transcripts accumulate at low levels in the somites and at high levels throughout the notochord. As gestation continues, CA3 becomes abundant in all developing muscle masses and continues at high to moderate levels in the notochord.
<b>Post-translational modifications</b>	S-glutathionylated in hepatocytes under oxidative stress.
<b>Cellular localization</b>	Cytoplasm.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

---

## Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

---

## Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors