



Product Datasheet

Product Name	Calretinin Human Recombinant
Cata No	CB501022
Source	<i>Escherichia Coli.</i>
Synonyms	Calretinin, CR, CALB2, CAB29, CAL2, CaBP29K, 29 kDa calbindin.

Description

Calretinin/CR/CLB2/CALB2/Calbindin D29K protein (mouse/rat/human 271 aa, chromosome 16q22.1, mol wt ~29 kDa) also belongs to the Calbindin family. It is most closely related to CABP28K (~55% identity). It may be alternatively spliced to a C-terminally truncated fragment, Calretinin-22K in some tumor cell lines. Calretinin is highly expressed in the cerebellum, olfactory bulb, and in auditory neurons. Calretinin gene inactivation in mice eliminated long-term potentiation induction in the dentate gyrus and impaired motor coordination. Recombinant Human Calbindin 29kDa is expressed with a -6xHis tag and purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Purity

Greater than 90% as determined by SDS-PAGE.

Formulation

The protein was lyophilized from a concentrated solution (1mg/ml) containing 10mM Tris pH-7.4, 50mM sodium chloride and 1mM b-mercaptoethanol.

Reconstitution

It is recommended to reconstitute the lyophilized CABP29K in sterile 18M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized CABP29K although stable at room temperature for 3 weeks, should be stored desiccated below -18 $^{\circ}$ C. Upon reconstitution CABP29K should be stored at 4 $^{\circ}$ C between 2-7 days and for future use below -18 $^{\circ}$ C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.

Applications

This protein can be used for immunoblots, absorption experiments in immunohistochemistry, radioimmunoassay and intracellular injection. For adsorption we suggest the following procedure:

A- Dilute 1 μ l of the antiserum against calretinin in 5 ml of the usual buffer for immunohistochemistry (final dilution 1:5'000).

B- Add 1 μ g of recombinant protein to 1ml of the diluted antibody solution and mix well.

C- Incubate for at least 6 hours in the cold.

D- Apply to tissue-sections and incubate for 3 days.

E - Complete the immunohistochemical reaction as usual (biotinylated second antibody, ABC-complex, DAB).

As a result, the immunostaining should be strongly reduced or even completely prevented.

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