

Recombinant *Pentadiplandra brazzeana* Brazzein Protein, Tag Free

Cat. No. Brazzein-56P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant <i>Pentadiplandra brazzeana</i> Brazzein Protein without tag was expressed in Yeast (animal free media and environment).
Species	<i>Pentadiplandra brazzeana</i>
Source	Yeast
Description	Brazzein is a small protein derived from the African plant <i>Pentadiplandra brazzeana</i> (1). It has sweet taste and is very heat-stable. Sweet taste has been shown to be mediated by a heterodimeric G protein coupled receptor composed of two proteins, T1R2 and T1R3. These proteins have significant homology to a brain metabotropic glutamate receptor, mGluR1, which functions as a homodimer. The ligand binding domain has been compared to a clamshell or a Venus flytrap, having two lobes that form the glutamate binding site. In the absence of ligand, both monomers have very open binding sites. In the ligand-activated form, one mGluR1 chain exhibits a rather closed conformation, and the other has an open binding site.
Tag	Non
Form	Lyophilized
Molecular Mass	6.4 kDa
AA Sequence	DKCKKVYENYPVSKCQLANQCNYDCKLDKHARSGECFYDEKRNLQCICDYCEY

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Endotoxin	< 0.2 EU/μg of protein as determined by the LAL method.
Purity	0.98
Storage	Stable for at least one year at -20 centigrade. Upon reconstitution Brazzein can be stored at +4 centigrade for 1 week or at -20 centigrade for 6 months.
Concentration	100 μg/μL
Storage Buffer	Potassium Phosphate-buffer, pH 7.0
Reconstitution	Spin the vial briefly, add distilled sterile water.
References	1. Nelson G, Hoon MA, Chandrashekar J, Zhang Y, Ryba NJ, Zuker CS. Mammalian sweet taste receptors. Cell. 2001;106:381–390. DE Walters, G Hellekant Interactions of the Sweet Protein Brazzein with the Sweet Taste Receptor J Agric Food Chem. 2006 Dec 27; 54(26): 10129–10133

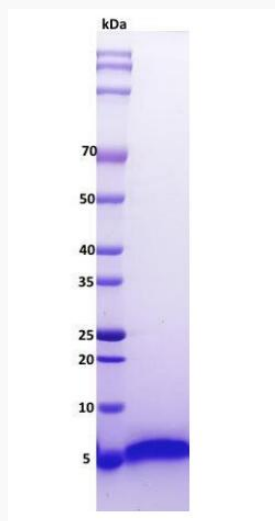
GENE INFORMATION

Official Symbol	Brazzein
Synonyms	DEF_PENBA; Defensin-like protein; Brazzein
UniProt ID	P56552

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SDS-PAGE

Brazzein was loaded and resolved on 8-22 % SDS-PAGE Coomassie staining.

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