

## Human CCBE1 Fragment, His-Tag

Synonyms: collagen and calcium binding EGF domains 1, KIAA1983

*PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING*

Size	Order #	Lot #	Expiry Date
5 µg	4383.950.005		

Please enquire for bulk quantities and other vial sizes

### Description

The lymphatic system comprises a vascular system separate from the cardiovascular system, essential for immune responses, fluid homeostasis and fat absorption. Lymphatic vessels develop in a complex process termed lymphangiogenesis that involves budding, migration and proliferation of lymphatic endothelial progenitor cells. A few genes, such as FLT4, FOXC2 and SOX18, are known to be critically involved in lymph vessel formation in humans. Lymphedema, lymphangiectasias, mental retardation and unusual facial characteristics define the autosomal recessive Hennekam syndrome. Homozygosity mapping identified a critical chromosomal region containing *ccbe1*, encoding Collagen and Calcium-Binding EGF-domain-1, a secreted protein which is required for embryonic lymphangiogenesis in zebrafish. *ccbe1* is not expressed in endothelial cells of lymph vessels, and it may be a component of the extracellular matrix. In zebrafish, *ccbe1* expression was observed along the earliest migration routes of endothelial cells that sprout from the posterior cardinal vein and migrate circuitously before developing into lymphatic vessels. *ccbe1* might therefore be involved in guidance of these migrating cells.

- **Source** *E. Coli*
- **Purity** ≥ 95 % (SDS-PAGE, Coomassie stain)

### Reconstitution

Centrifuge vial prior to opening. The lyophilized *ccbe1* is soluble in water and most aqueous buffers and should be reconstituted in PBS to a concentration not lower than 50 µg/ml.

### Amino Acid Sequence

MCECREGYIR EDDGKTCTRG DKYPNDTGHE KSENMVKAGT CCATCKEFYQ MKQTVLQLKQ KIALLPNNAA  
DLGKYITGDK VLASNTYLPG PPGLEHHHHH H

**Usage:** For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

\*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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