

## Product Information

**RACK1**  
**human, recombinant**  
**expressed in *Escherichia coli***

Catalog Number **R4780**  
Storage Temperature  $-20^{\circ}\text{C}$

Synonyms: **Receptor of Activated C-Kinase 1**; Receptor of activated protein kinase C 1

### Product Description

Receptor of activated protein kinase C 1 (RACK1) is a 37 kDa intracellular adapter protein that belongs to a class of intracellular receptor proteins, which bind activated members of the protein kinase C family. It serves as a scaffold protein for a wide range of kinases and membrane-bound receptors. RACK1 is a member of the tryptophan-aspartate (WD) family known for its propeller-like structure.

The existing literature strongly indicates RACK1 plays an important role in intracellular signaling at several functional levels. RACK1 is a substrate for several kinases. The most studied one is Src kinase. RACK1 is involved in the regulation of Src function and cell growth.

This product is supplied in a 0.2  $\mu\text{m}$  filtered solution of 0.02 M Tris buffer, pH 8.0, with 0.15 M NaCl, 5 mM DTT, 0.1% CHAPS, and 30% glycerol (w/v).

Purity: >90% (SDS-PAGE)

### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

### Storage/Stability

The product ships on dry ice and storage at  $-20^{\circ}\text{C}$  is recommended. Upon first use it is recommended to store the remaining enzyme in working aliquots at  $-20^{\circ}\text{C}$ . The product remains active at  $-20^{\circ}\text{C}$  for at least 2 years.

### References

1. Sklan, E.H., et al., *Prog. Neurobiol.*, **78**, 117-134 (2006).
2. Stebbins, E.G., and Mochly-Rosen, D., *J. Biol. Chem.*, **276**, 29644-29650 (2001).
3. Chang, B.Y., et al., *Oncogene*, **21**, 7619-7629 (2002).

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