

---

## Product Data Sheet

---

Product Name: prostate apoptosis response protein PAR-4 (2-7) [Homo sapiens]  
Cat. No.: GP10002

### Chemical Properties

Cas. No.

SMILES CC(C(NC(C(O)C)C(NCC(NCC(NC(CC1=CC=C(O)C=C1)C(NC(CCCNC(N)=N)C(O)=O)=O)=O)=O)=O)=O)N

Formula C<sub>26</sub>H<sub>41</sub>N<sub>9</sub>O<sub>9</sub>

M.Wt

623.66

Solubility ≥ 62.3mg/mL in DMSO

Storage

Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon Condition request.

Structure

### Background

prostate apoptosis response protein PAR-4 (2-7) [Homo sapiens], (C<sub>26</sub>H<sub>41</sub>N<sub>9</sub>O<sub>9</sub>), a peptide with the sequence H<sub>2</sub>N-Ala-Thr-Gly-Gly-Tyr-Arg-OH, MW= 623.66. Prostate apoptosis response-4 (Par-4), is a human gene coding for a tumor-suppressor protein that induces apoptosis in cancer cells, but not in normal cells. The tumor suppressor PAR-4 represses and activates transcription. The protein encoded by this gene is a PAR-4-interacting protein that itself functions as a transcriptional repressor. It contains a putative leucine zipper domain which interacts with the zinc finger DNA binding domain of PAR-4. This protein is specifically upregulated during apoptosis of prostate cells<sup>1</sup>. The active domain of the Par-4 protein has been found to confer cancer resistance in transgenic mice without compromising normal viability or aging, and may have therapeutic significance<sup>2</sup>.

References:

1. Johnstone, R W; See R H, Sells S F, Wang J, Muthukkumar S, Englert C, Haber D A, Licht J D, Sugrue S P, Roberts T, Rangnekar V M, Shi Y (Dec. 1996). "A novel repressor, par-4, modulates transcription and growth suppression functions of the Wilms' tumor suppressor WT1". Mol. Cell. Biol. (UNITED STATES) 16 (12): 6945-56.
2. Zhao Y, Burikhanov R, Qiu S, Lele SM, Jennings CD, Bondada S, Spear B, Rangnekar VM (2007). "Cancer resistance in transgenic mice expressing the SAC module of Par-4". Cancer Res. 67 (19): 9276-85.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA