**Product Specification Sheet**

**Product Name:** CGS-21680  
**Catalog Number:** C2216

**Technical information:**
- **Chemical Formula:** C23H29N7O6  
  **CAS #:** 124182-57-6  
  **Molecular Weight:** 499.52  
  **Purity:** > 98%  
  **Appearance:** White solid  
  **Solubility:** Soluble in DMSO up to 100 mM  
  **Chemical Name:** 3-[4-[[6-amino-9-[(2R,3R,4S,5S)-5-(ethylcarbamoyl)-3,4-dihydroxy-oxolan-2-yl]purin-2-yl]amino]ethyl]phenyl]propanoic acid  
  **Storage:** Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.  
  **Shelf Life:** In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.

**Handling:**
- To make 10 mM stock solution, add 0.2mL of DMSO for each mg of CGS-21680.  
- For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

**Biological Activity:**
CGS21680, an A2A adenosine receptor agonist, is under investigation in various inflammation models for potential novel therapies. For example, CGS21680 possesses an anti-inflammatory effect during chronic inflammation and lessens the tissue damage associated with collagen-induced arthritis. [1]

CGS21680 reduces spinal cord injury-induced phosphorylation of JNK and MAPK. It was shown also to reduce the influx of PMPO-positive leukocytes, NFkB activation, and iNOS expression. Additionally, CGS21680 reduced phosphorylation of p65 on Ser536. [2]

In acute lung inflammation models, CGS21680 was shown to reduce neutrophil infiltration and thus degree of lung injury after a carrageenan-challenge. [3]

**Reference:**
1. Mazzon et al., CGS 21680, an agonist of the adenosine (A2A) receptor, reduces progression of murine type II collagen-induced arthritis. J. Rheumatol., 2011, 38(10), 2119-2129. Pubmed ID: 21765105  

**To reorder:** [http://www.cellagentech.com/CGS-21680/](http://www.cellagentech.com/CGS-21680/)  
**For Technical Support:** technical@cellagentech.com

*Chemicals are sold for research use only, not for clinical or diagnostic use.*