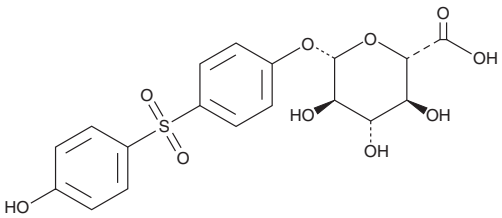
PRODUCT INFORMATION

Bisphenol S Glucuronide

Item No. 44149

CAS Registry No.:	2230265-52-6
Formal Name:	4-[(4-hydroxyphenyl)sulfonyl] phenyl β-D-glucopyranosiduronic acid
Synonyms:	BPSG, BPS Glucuronide
MF:	$C_{18}H_{18}O_{10}S$
FW:	426.4
Purity:	≥85%
Supplied as:	A 1 mg/ml solution in methanol
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Description

Bisphenol S glucuronide (BPSG) is a metabolite of BPS (Item No. 45556).[1] It is formed from BPS primarily by the UDP-glucuronosyltransferase (UGT) isoform UGT1A9. BPSG decreases the basal glycolytic capacity of non-cancerous primary urothelial cells and increases the basal glycolytic and mitochondrial capacities of RT4 bladder cancer cells.[2] BPSG is inactive at estrogen and thyroid hormone receptors and exhibits negligible transfer across the human placenta *ex vivo*.[3,4] It has been found in various foods, including fish, vegetables, and meats.[5]

References

1. Gramec Skledar, D., Troberg, J., Lavdas, J., *et al.* Differences in the glucuronidation of bisphenols F and S between two homologous human UGT enzymes, 1A9 and 1A10. *Xenobiotica* **45(6)**, 511-519 (2015).
2. Pellerin, È., Pellerin, F.A., Chabaud, S., *et al.* Glucuronidated metabolites of bisphenols A and S alter the properties of normal urothelial and bladder cancer cells. *Int. J. Mol. Sci.* **23(21)**, 12859 (2022).
3. Skledar, D.G., Schmidt, J., Fic, A., *et al.* Influence of metabolism on endocrine activities of bisphenol S. *Chemsphere* **157**, 152-159 (2016).
4. Grandin, F.C., Lacroix, M.Z., Gayrard, V., *et al.* Is bisphenol S a safer alternative to bisphenol A in terms of potential fetal exposure? Placental transfer across the perfused human placenta. *Chemsphere* **221**, 471-478 (2019).
5. Qu, J., Guo, R., Liu, L., *et al.* Occurrence of bisphenol analogues and their conjugated metabolites in foodstuff. *Sci. Total Environ.* **948**, 174922 (2024).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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