



Excellence in Chemistry

## Small Focused Libraries, Providing Array of Light in your Drug Discovery Program? Focused Arrays of Compounds with Target-Appropriate Properties Delivered at the Right Time

Charnwood Molecular specialises in the supply of small focused arrays of typically 10-100 compounds to clients, in quantities from mg to g. This activity can quickly move a project forward if the compounds are appropriately selected (we are happy to liaise with our client to make suitable selections) and delivered quickly for testing, within the immediate time demands of a live Medicinal Chemistry program.



Where suitable we use modular parallel synthesis and purification equipment to speed up these activities but we are equally adept at performing more traditional steps to provide access to the selected final screening compounds.

Building blocks for these activities can either be prepared by Charnwood Molecular as part of the program or provided directly by our clients. Specialist techniques which can be incorporated towards building block synthesis available at Charnwood include photochemistry, high pressure chemistry and ozonolysis.

Clients are kept informed of progress towards library compounds every step of the way and the compounds are delivered to fit our client's screening schedules, with full supporting NMR/LCMS & SD data.

Some metrics from focused compound arrays we have delivered to clients are shown below:

Compounds	# of Synthetic Steps	# Compounds Supplied**	Quantity Supplied
Pyrimidines	1	>100	20 mg
Oxamides	1	>100	20 mg
Ureas	1	38	20 mg
Pyridazones	2*	96	25 mg
Sulfonamides	1	32	2 g
Dipeptides	3*	10	10 mg
Imidazopyrimidines	2-4*	25	50 mg
Phthalimides	1-3*	50	20 mg

\*Novel building blocks prepared by Charnwood Molecular; \*\*Typical purity is >95% by LCMS

As well as supporting ongoing Medicinal Chemistry programs, these Charnwood Molecular chemistry service activities are also being used by our clients to help enhance their company screening collections, with the clear aim of accelerating both current and future Drug Discovery efforts.

### Charnwood Molecular Ltd

The Heritage Building, 7 Beaumont Court,  
Prince William Road, Loughborough, UK, LE11 5DA.

[www.charnwood-molecular.com](http://www.charnwood-molecular.com)

+44 (0) 1509 232007 [info@charnwood-molecular.com](mailto:info@charnwood-molecular.com)

#charnwoodmol [charnwood-molecular](https://www.linkedin.com/company/charnwood-molecular)