



OpenDEL™

Start Your Journey to Access Vast Chemical Space



5.0

Stock Code: HitGen Inc. (688222.SH)

OpenDEL™ -- Empowering Your Drug Discovery Journey

▶ Hit Discovery

Identify novel compounds directly from the OpenDEL library

▶ AI/ML

Use post-selection DEL for prediction of new chemical space outside of DEL

▶ Target Ligandability

Perform screening of novel targets to assess their ligandability

OpenDEL™ -- Fully Transparent Open Access

▶ The Kit

[OpenDEL™ – Small Molecule Library](#)

- 57 Libraries
- 12 2-Cycle Libraries, ~20M Compounds
- 45 3-Cycle Libraries, ~3.8Bn Compounds

[OpenDEL™ – Macrocycle Library](#)

- 1 Macrocycle Library +1 Linear Control
- ~200M Compounds

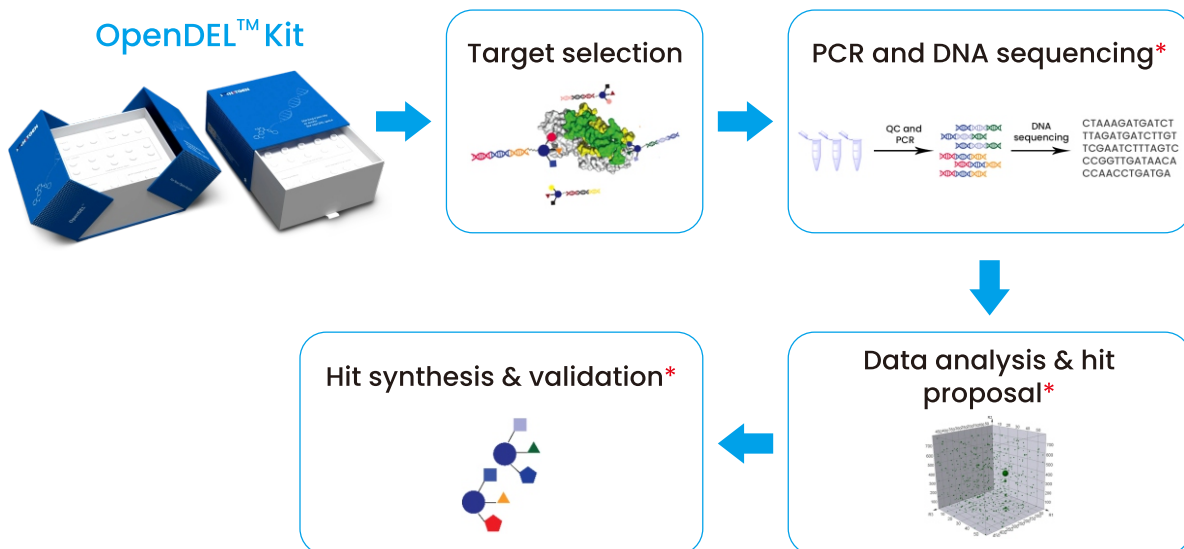
▶ Access to

- Small Molecule/Macrocycle Structures
- Building Blocks
- Scaffolds
- DNA Codons
- Selection Manual

▶ No Structure Disclosure Fee

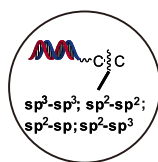
▶ No Compound IP License Fee

OpenDEL™ -- Expert Discovery Science at Your Disposal



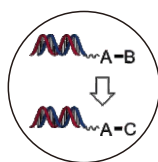
*Post-selection services available at HitGen

Chemistry Diversity



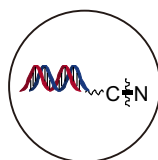
C-C Bond Formation

- Indole C3 alkylation
- Suzuki coupling
- Photoredox
- Sonogashira coupling



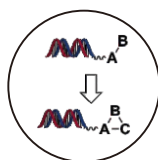
Functional Group Transformation

- NO_2 to amine
- Azide to amine
- Amine to azide
- Halide to azide
- Halide to amine
- Halide to alkyne
- Aldehyde to alkyne
- Alkene to aldehyde
- Thioether oxidation
- Halide to acid
- Halide to cyanide
- Alkyne to aldehyde
- Alkyne to alkyne



C-N Bond Formation

- Acylation
- Reductive Amination with Aldehyde
- Reductive Amination with Ketone
- Buchwald-Hartwig Cross Coupling
- SN_2/SN_{Ar}
- Sulfonylation



In-situ Heterocycle Formation

- Triazoles
- Imidazolindinone
- Pyridones
- 1,2,4-oxadiazole
- Isoindolinone
- Benzimidazole
- Benzotriazole
- Indazolone
- 2-pyridinone

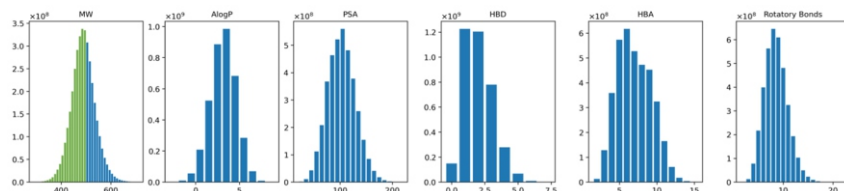
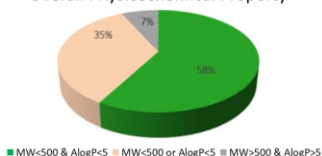
Building Block/Scaffold Diversity

- ▶ Mono-functional group BBs: **>20,000**
- ▶ Bi-functional group BBs: **>3,000**
- ▶ Novel scaffolds: **>550**

BBs: amines, acids, aldehydes, boronates, protected amino acids, free amino acids, amino esters, diamines, acid-aldehydes, acid-aryl-halides, etc.

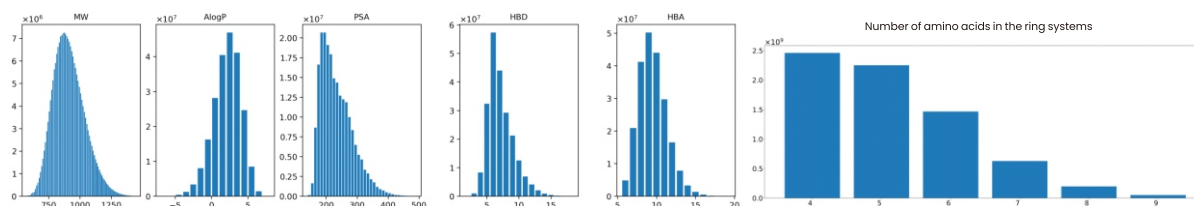
Physicochemical Properties of OpenDEL™ Small Molecules

Overall Physicochemical Property



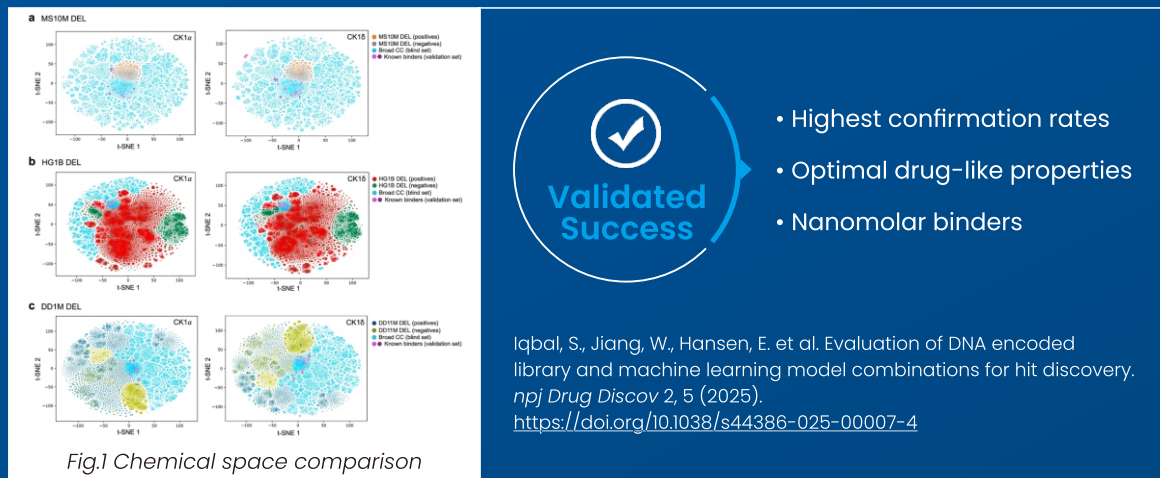
	Average MW (Da)	MW<500 & AlogP<5	MW<550	MW<500	MW<450
2-Cycle DELs	419	86.8%	99.7%	94%	67%
3-Cycle DELs	484	58%	90.6%	60.7%	19%

Physicochemical Properties of OpenDEL™ Macrocycles



Customer Testimonial

HitGen OpenDEL™ Shows Superior Performance in AI-Driven Hit Discovery



OpenDEL™ — Meeting Customer Needs Through Choice

01 Small Molecule Library	<ul style="list-style-type: none">• 57 small molecule libraries• ~3.8 billion compounds• 10 selection samples
02 Small Molecule Library + Macrocycle Library Combo	<ul style="list-style-type: none">• 57 small molecule libraries, ~3.8 billion compounds• 1 macrocycle library and 1 linear control, ~200M compounds• 2 x 10 selection samples
03 Macrocycle Library	<ul style="list-style-type: none">• 1 macrocycle library and 1 linear control, ~200M compounds• 4-10 amino acids in the ring• 10 selection samples



HitGen Inc.

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